

Figure 1 shows inverted images of the wells of a microtiter plate.

EuMac - +		Abbreviation	% EtOH	% H₂O	Integrated Lumines- cence
	Α	TTFA-25EtOH	25	75	10,667
- គោងស្ថិ	В	TTFA-50EtOH	50	50	8,881
	С	TTFA-75EtOH	75	25	7,306
	D	TTFA-100EtOH	100	0	596
	E	Gd(III)-TTFA-25EtOH	25	75	27,526
	F	Gd(III)-TTFA-50EtOH	50	50	31,258
	G	Gd(III)-TTFA-75EtOH	75	25	27,534
A The second of	Н	Gd(III)-TTFA-100EtOH	100	0	11,943
	ī	Gd(TTFA) ₃ -28EtOH	28	72	24,409
	J	Gd(TTFA) ₃ -58EtOH	58	42	33,409
	K	Gd(TTFA) ₃ -75EtOH	75	25	32,588
	L	Gd(TTFA) ₃ -100EtOH	100	0	31,055
	N	TTFA 1.45 mM EtOH			*Old solution
	N	Gd(TTFA) ₃ 1.2 mM EtOH			*Old solution
	C	LEL Emulsion			36,497
歷	Р	LEL Emulsion			36,845

Figure 2 shows inverted images of the wells of a microtiter plate.

^{*}These solutions had been kept at room temperature, which resulted in their producing questionable results.

<u>- +</u>	Well	Abbreviation	Material	Solvent	Mean EuMac -Mean Neg. Cntrl.
	A	LEL emulsion	LEL emulsion	H ₂ O	190
Fast.	В	Gd(III)-H ₂ O	Gd(III)	H ₂ O	7.6
	С	Gd(III)-MeOH	Gd(III)	MeOH	0.6
	D	Gd(III)-Isopropanol	Gd(III)	Isopropanol	1.3
÷ .	E	TTFA-H₂O	TTFA	H ₂ O	14.8
	F	TTFA-MeOH	TTFA	MeOH	16.8
	G	TTFA-Isopropanol	TTFA	Isopropanol	11.7
	Н	Gd(III)-TTFA-H ₂ O	Gd(III) + TTFA	H ₂ O	91
E	I	Gd(III)-TTFA-MeOH	Gd(III) + TTFA	MeOH	126
4	J	Gd(III)-TTFA-Isopropanol	Gd(III) + TTFA	Isopropanol	8.5
	K	Gd(TTFA) ₃ -H ₂ O	Gd(TTFA)₃	H ₂ O	67
	L	Gd(TTFA) ₃ -MeOH	Gd(TTFA) ₃	MeOH	152
	M	Gd(TTFA) ₃ -Isopropanol	Gd(TTFA) ₃	Isopropanol	25

Figure 3 shows inverted images of the wells of a microtiter plate.

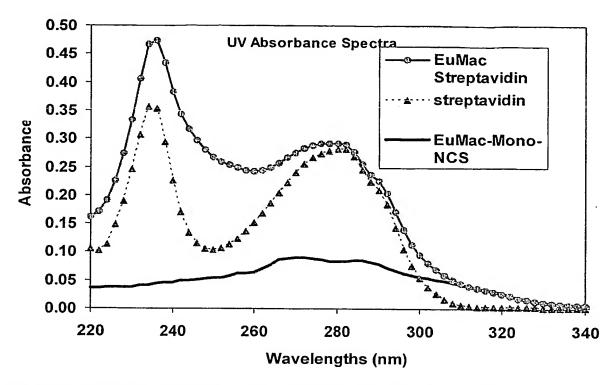


Figure 4 is a graphical presentation of the ultraviolet absorption spectra of the EuMacmono-NCS, the EuMac coupled to streptavidin, and streptavidin.

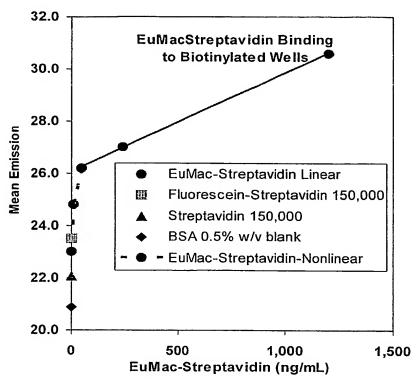


Figure 5 is a graph of the relative emission intensity versus the concentration of streptavidin added to the biotinylated well.

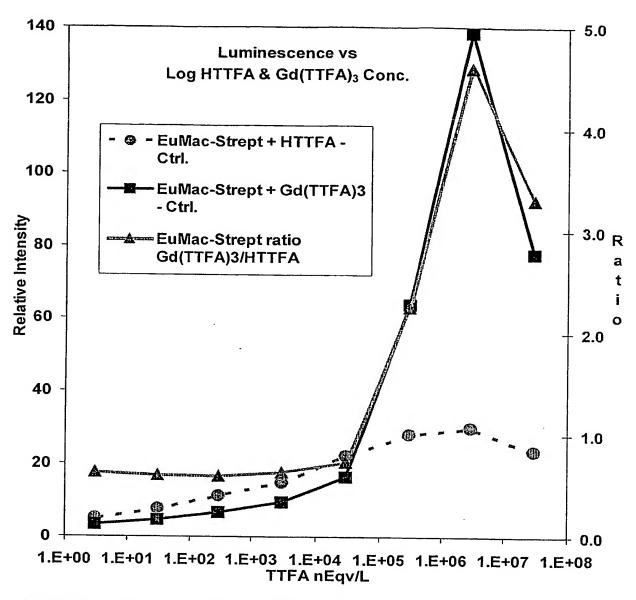


Figure 6 is a plot the concentrations of $\mathrm{Gd}(\mathrm{TTFA})_3$ and HTTFA vs. relative luminescence.

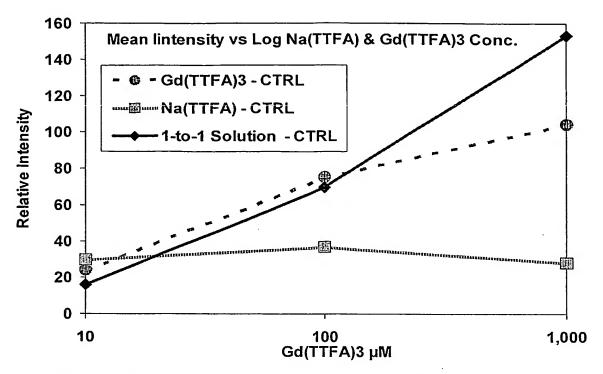


Figure 7 is a plot of the concentrations of Gd(TTFA)₃, Na(TTFA), and their one-to-one mixture vs. relative luminescence.

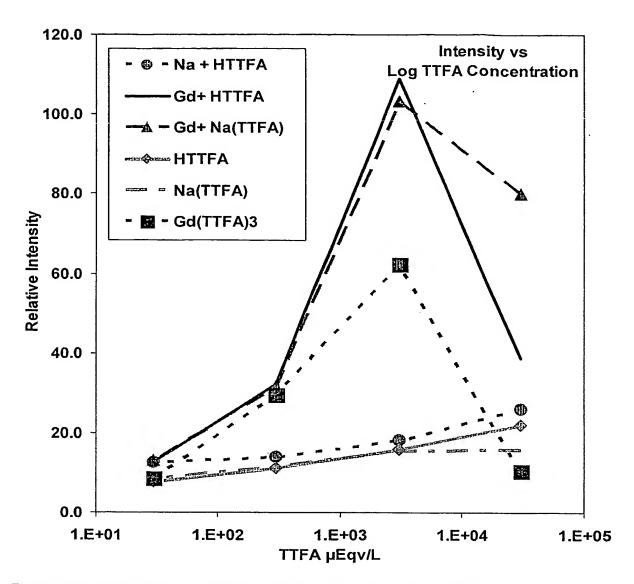


Figure 8 is a plot of the concentrations of Gd(TTFA)₃, Na(TTFA), HTTFA, and their mixtures vs. relative luminescence.

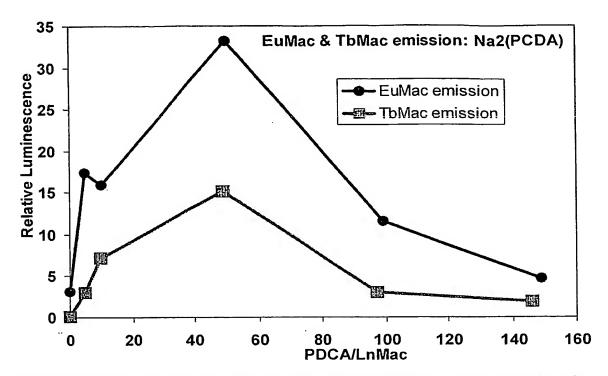


Figure 9a is a graph showing the effect of differing concentrations of $Na_2(PDCA)$ on the luminescence of two different lanthanide macrocycles.

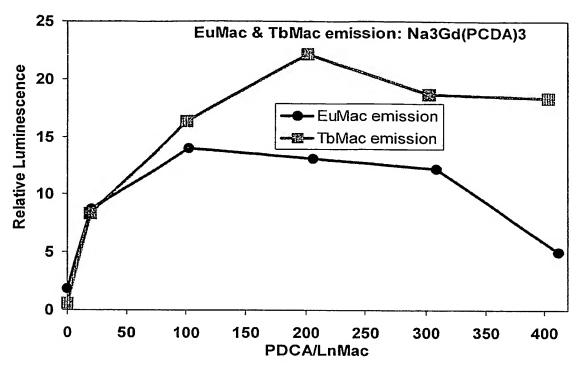


Figure 9b is a graph showing the effect of differing concentrations of Na₃Gd(PDCA)₃ on the luminescence of two different lanthanide macrocycles.

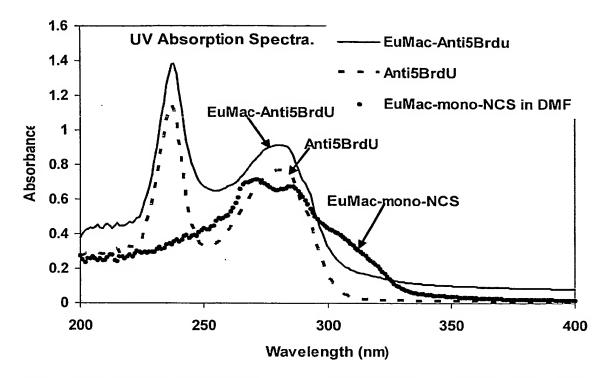


Figure 10 is a graphical presentation of the ultraviolet absorption spectra of the EuMacmono-NCS, the EuMac coupled to anti-5-BrdU, and anti-5-BrdU.

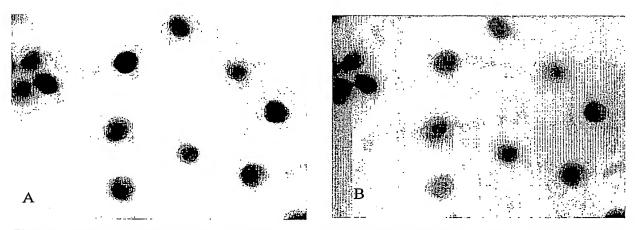


Figure 11 is a pair of inverted images of EuMac-di-NCS stained cells. A is a 5 second exposure; B is the summation of 1000 time-gated images, each exposed for 2 msec.

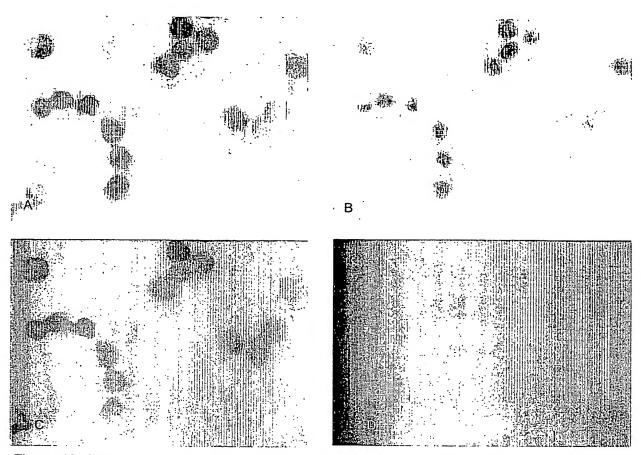


Figure 12 shows four images of a single preparation of nonapoptotic cells stained with both EuMac and DAPI.

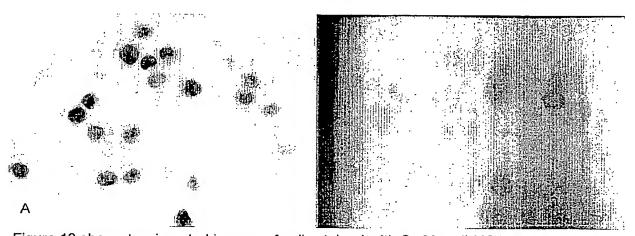


Figure 13 shows two inverted images of cells stained with SmMac-di-NCS and DAPI.

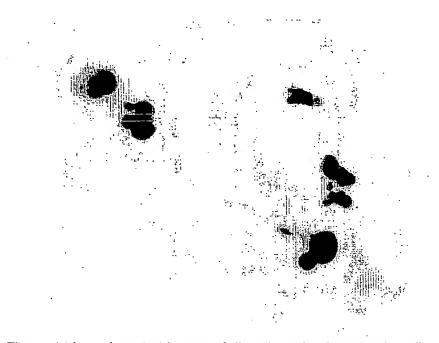


Figure 14 is an inverted image of directly stained apoptotic cells.

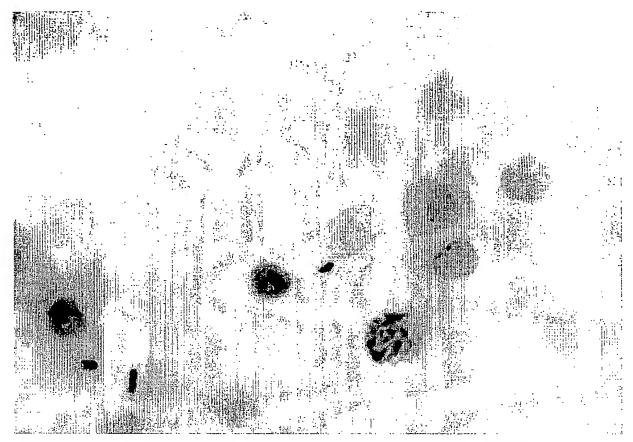


Figure 15 is an inverted image of EuMac-anti-5-BrdU stained cells in S phase.

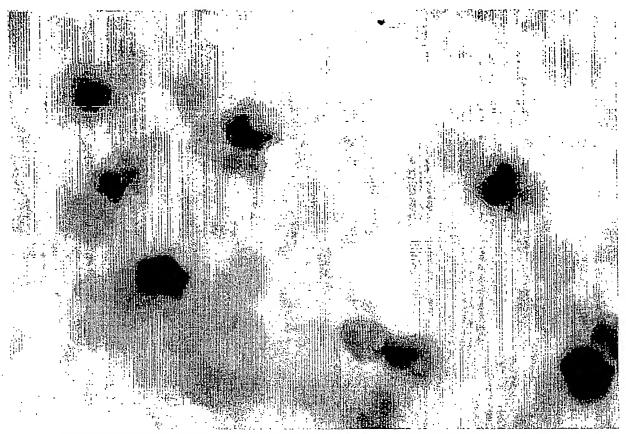


Figure 16 is an inverted image of EuMac-Streptavidin stained apoptotic cells.

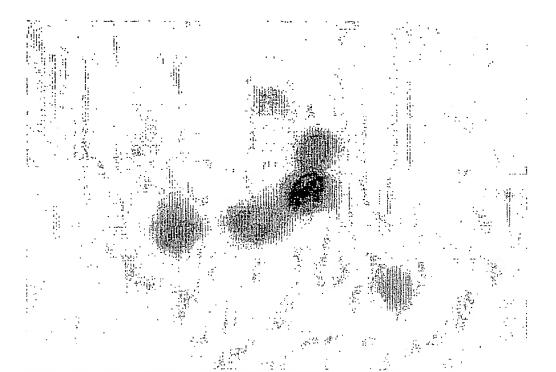


Figure 17 is an inverted image of EuMac-Streptavidin stained cells in S phase.

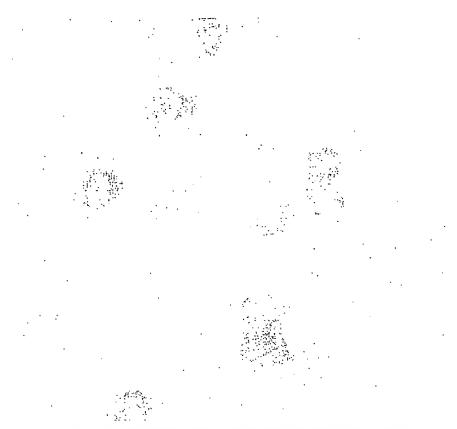


Figure 18 is an inverted image of two photon excited EuMac-di-NCS stained cells.

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